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Notice of Allowability	Application No.	Applicant(s)
	10/657,878	KROLL ET AL.
	Examiner	Art Unit
	Deborah Malamud	3766
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>10/30/06</u> .		
2. The allowed claim(s) is/are 1-24.		
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	been received.	
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No /Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7.	ment/Comment
Paper No./Mail Date	8. X Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. Other	
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DETAILED ACTION

1. The examiner acknowledges the amendments received 30 October 2006. New claims 14-24 have been added; claims 1-24 are pending.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Applicant's arguments, see "Remarks," pages 7-8, filed 30 October 2006, with respect to claims 1, 8 and 13 have been fully considered and are persuasive. The rejection of claims 1-7 under 35 U.S.C. 103(a) as being unpatentable over Mouchawar et al (U.S. 6,553,259) in view of Bradley et al (U.S. 2003/0208241); of claims 8-11 and 13 as being unpatentable over Andersson et al (U.S. 5,846,264) in view of Bradley et al (U.S. 2003/0208241); and of claim 12 as being unpatentable over Andersson et al (U.S. 5,846,264) in view of Bradley et al (U.S. 2003/0208241) and in further view of Olson et al (U.S. 6,731,978) has been withdrawn.

Allowable Subject Matter

- 4. Claims 1-24 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

Claim 1 is a system comprising a pacing unit operative to deliver primary pacing pulses and backup pacing pulses to the ventricles of the heart; a capture detection unit operative to detect loss of capture of both primary pacing pulses and backup pacing

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pulses in the ventricles; and a capture-based ventricular tachycardia detection unit operative to detect a ventricular tachycardia based upon loss of capture of a ventricular backup pulse as detected by the capture detection unit. Claim 8 is a method comprising delivering primary pacing pulses to the ventricles of the heart; verifying capture of the primary pacing pulses; delivering a backup pulse to the ventricles of the heart upon detection of a loss of capture of a primary pacing pulse; verifying capture of the ventricular backup pacing pulses; detecting a ventricular tachycardia based upon detection of loss of capture of a backup pulse in the ventricles as detected by the capture detection unit. Claim 13 is a system comprising means for delivering primary pacing pulses to the ventricles of the heart; means for verifying capture of the primary pacing pulses; means for delivering a backup pulse to the ventricles of the heart upon detection of a loss of capture of a primary pacing pulse; and means for verifying capture of the ventricular backup pacing pulses; and means for detecting a ventricular tachycardia based upon loss of capture of a ventricular backup pulse.

It is well known in the art to provide a primary pacing pulse to a patient, followed by a backup pacing pulse if the primary pacing pulse results in a loss of capture.

However, it is neither explicitly taught nor obvious to one of ordinary skill in the art at the time of the invention to detect a ventricular tachycardia based on the loss of capture of a backup pacing pulse.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Malamud whose telephone number is (571) 272-2106. The examiner can normally be reached on Monday-Friday, 9.00am-5.30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pezzuto can be reached on (571)272-6996. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PRIMARY EXAMINER

ACTING SPE, AU3766

12/29/2006

Patent Examiner

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